

AMENDMENT UNDER 37 C.F.R. § 1.111
U.S. Appln. No. 09/816,348

a¹ amended.

magnets) 2 are supported and fixed. These stators 2 are respectively formed in a partially cylindrical shape as a whole having an arc-like section and the radius of curvature of each outer circumferential surface is formed to be slightly larger than the radius of curvature of the inner circumferential surface of the case body 1. Then, in a condition where the both edge portions of the stators 2 with respect to the circumferential direction of the case body 1 and the inner circumferential surface of the case body 1 are in contact with each other, the stators 2 are respectively fixed by a glue 3, as shown in Fig. 5, on the inner circumferential surface of the inner circumferential surface of the case body 1. Therefore, in the present embodiment, the glue 3 is filled in a clearance portion 25, as shown in Fig. 5, between the outer circumferential surface of each of the stators 2 and the inner circumferential surface of the case body 1. Accordingly, in the first embodiment, the bonding strength between both members 1 and 2 can be sufficiently secured and it is possible to make the vibration of the stators 2 be hardly transmitted. That is, the glue 3 filled with in the clearance portion 25 between both circumferential surfaces not only joins both circumferential surfaces but also absorbs the vibration.

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The reinforcing ring 22 constructed as mentioned above is fixed by press fitting on a portion that is slightly shifted toward the rear end side from the portions where the stators 2 are fixed on the parts of the inner circumferential surface of the case body 1. Therefore, in the first embodiment, as shown in Fig. 4, the reinforcing ring 22 is press fitted inside the rear end portion of the case body 1 from the side where the ring portion 23 is provided while the diameter of the

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cylinder portion 24 is resiliently shrinked. Accordingly, the outside diameter of the ring portion 23 is set to be the same as or slightly smaller than the inside diameter of the case body 1, and the maximum outside diameter of the cylinder portion 24 in a free condition is set to be slightly greater than the inside diameter of the case body 1. In the first embodiment, since the reinforcing ring 22 is fixed on the case body 1 as mentioned above, it becomes possible to make the portions where the stators 2 are fixed on the parts of the case body 1 resistant to deformation (high in rigidity).

[Page 14, paragraph 1:]

When the motor for driving a blower fan of the invention constructed as described above is incorporated in a car air conditioner as mentioned above, the blower fan is fixed on a portion that is projected from the front surface of the front end plate 6 of the front end portion of the rotary drive shaft 10. Also, the motor excluding its front end portion is stored and supported in a cylindrical attachable bracket 26 having a bottom made of a synthetic resin. Then, the motor is fixed on the outer wall of an upstream end portion of a duct (not illustrated) which composes the car air conditioner by means of an attaching flange 27 provided and fixed on the outer circumferential surface of the middle portion of the attachable bracket 26. Herein, a part of the rear end face of the rear end plate 4 which is provided on the rear end portion of the motor is butted to the tip face of a projection 31 provided on a part of the bottom surface of the attachable bracket 26. Also, the projection 31 and the part of the rear end plate 4 are combined by means of a screw 32. Accordingly, a clearance is formed between the rear end face of the rear end plate 4

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and the bottom surface of the attachable bracket 26 except for the portion where the projection 31 is provided. Thus, since a clearance exists, the vibration which occurs at the rear end plate 4 comes to be barely transmitted to the attachable bracket 26.

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Also, at a position which coordinates with an inner air-supply hole 21 formed on the rear end plate 4 on a part of the attachable bracket 26, an outside air-supply hole 28 is provided, and the outside air-supply hole 28 and a portion where the air blown out by the blower fan passes in the middle portion of the duct are communicated by means of an air-supply hose 29.

Accordingly, when the car air conditioner is running, a part of the air that circulates in the duct is sent into the attachable bracket 26 and said air further passes through inside the motor and then goes out to the rear side portion of the blower fan, and thus the components of the motor can be cooled.

✓ IN THE CLAIMS:

✓ Please cancel claim 5 without prejudice or disclaimer.

Please enter the following amended claims:

1. (Amended) A motor for driving a blower fan comprising:

a cylindrical case body having a front end opening portion and a rear end opening

portion;

a rear end plate fixed on the rear end opening portion of the case body, the rear end plate

having a first bearing;